U.S. DEPARTMENT OF HOMELAND SECURITY Federal Emergency Management Agency National Flood Insurance Program

OMB No. 1660-0008 Expiration Date: November 30, 2018

ELEVATION CERTIFICATE

Important: Follow the instructions on pages 1-9.

Copy all pages of this Elevation Certificate and all attachments for (1) community official, (2) insurance agent/company, and (3) building owner.

	SEC	TION A - PROPERTY	/ INFOR	MATION			FOR INSU	RANCE COMPANY USE
A1. Building Owner							Policy Nun	mber:
Daniel J. & Linda T								
A2. Building Stree Box No. 70 Weekapaug Ro		cluding Apt., Unit, Sui	te, and/o	r Bldg. No.) a	r P.O. F	Route and	Company	NAIC Number:
City				State			ZIP Code	
Westerly				Rhode Is	sland		02891	
A3. Property Desc Assessor's Plat 14		and Block Numbers, Ta	ax Parce	l Number, Le	gal Des	cription, etc	o.)	
A4. Building Use (e.g., Reside	ntial, Non-Residential,	Addition	, Accessory,	etc.)	Residentia		
A5. Latitude/Longi	tude: Lat.4	1°20'16.14" N	Long. 0	71°46'05.30"	w	Horizontal	Datum: NAD	1927 X NAD 1983
A6. Attach at least	: 2 photograp	hs of the building if the	e Certific	ate is being ι	sed to			berrend
A7. Building Diagra	am Number	7						
A8. For a building	with a crawls	space or enclosure(s):						
a) Square foo	tage of craw	lspace or enclosure(s))		660.00	sqft		
b) Number of p	oermanent fl	ood openings in the cr	awispac	e or enclosure	e(s) with	- hin 1.0 foot	above adjacent or	rade 4
		penings in A8,b see o					,	
d) Engineered	i flood openi	ngs? 🗵 Yes 🗌 N	No.					
A9. For a building v			••					
a) Square foot				sq ft				
1		ood openings in the at				: ahova adi:	acont arado	
		penings in A9.b				above adj		
			1.	sq	н			
d) Engineered	noou openir	ngs?	NO					
	Sì	ECTION B - FLOOD	INSURA	NCE RATE	MAP (I	FIRM) INF	ORMATION	
B1. NFIP Commun		Community Number		B2. County				B3. State
Westerly, Town of	445410			Washington	I			Rhode Island
B4. Map/Panel Number	B5, Suffix	B6. FIRM Index Date	Effe	RM Panel ective/ vised Date	B8. Fi Zone(B9. Base Flood E (Zone AO, us	 Elevation(s) se Base Flood Depth)
44009C0259	J	10-16-2013	10-16-2		AE		12 & 13	
B10. Indicate the s	ource of the	Base Flood Elevation	(BFE) da	ata or base flo	ood den	th entered	in Item B9	
		Community Deter			-			
B11. Indicate eleva	ation datum i	used for BFE in Item B	9: 🔲 N	GVD 1929	⊠ NA\	/D 1988	Other/Source:	
B12. Is the building	g located in a	a Coastal Barrier Reso	urces Sy	/stem (CBRS) area c	or Otherwis	e Protected Area (OPA)? Tyes X No
Designation I	Date:	П	CBRS	☐ OPA				

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the co			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, 70 Weekapaug Road	Suite, and/or Bldg. No.) or P.O. Roo	ute and Box No.	Policy Number:
City	State ZIP	Code	Company NAIC Number
Westerly Rhode Island 02891		·	
SECTION C - B	UILDING ELEVATION INFORMA	TION (SURVEY RI	EQUIRED)
C1. Building elevations are based on: *A new Elevation Certificate will be req C2. Elevations – Zones A1–A30, AE, AH, A Complete Items C2.a—h below accordi Benchmark Utilized: Local - GPS Indicate elevation datum used for the e ■ NGVD 1929 ▼ NAVD 198	uired when construction of the build A (with BFE), VE, V1–V30, V (with B ng to the building diagram specified Vertical Datum elevations in items a) through h) belo	FE), AR, AR/A, AR/ in Item A7. In Puert : NAVD-88	/AE AP/A1 A20 AD/AH AD/A0
Datum used for building elevations mu	st be the same as that used for the F	3FF	
			Check the measurement used.
 a) Top of bottom floor (including baser 	ment, crawlspace, or enclosure floor)	6.79 X feet meters
b) Top of the next higher floor			15.11 X feet meters
c) Bottom of the lowest horizontal stru	ctural member (V Zones only)		N/A feet meters
d) Attached garage (top of slab)	() ======		N/A feet meters
e) Lowest elevation of machinery or ea (Describe type of equipment and loan	quipment servicing the building cation in Comments)		15.11 X feet meters
f) Lowest adjacent (finished) grade ne	ext to building (LAG)		6.75 🗵 feet 🗌 meters
g) Highest adjacent (finished) grade no	= : •		12.40 X feet meters
h) Lowest adjacent grade at lowest ele structural support	Ŧ , ,	***************************************	7.00 🛛 feet 🗌 meters
	NIDVEYOR ENGINEER OF A		
This certification is to be signed and sealed I certify that the information on this Certifica		hitect authorized by	classification of the control of the
statement may be punishable by fine or imp Were latitude and longitude in Section A pro	ansonment under 18 U.S. Code, Sec	tion 1001.	Check here if attachments.
Certifier's Name	License Number		
Mark A. Castellanos	RI #2511		
Title Survey Manager			MARKA CASTELLANOS
Company Name Cherenzia & Associates, Ltd.			- No. 1 (26)
Address			
99 Mechanic Street			PROFESSIONAL
City Pawcatuck	State Connecticut	ZIP Code 06379	LAND SURVEYOR
Signature 271 a Catton	Date 03-11-2019	Telephone (860) 629-6500	Ext. 135
Copy all pages of this Elevation Certificate and	all attachments for (1) community of	ficial. (2) insurance a	gent/company, and (3) huilding owner
Comments (including type of equipment and See Attached			gara tangang ana (a) salang awilai.

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corresponding information fro		FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P. 70 Weekapaug Road	O. Route and Box No.	Policy Number:
City State	ZIP Code	Company NAIC Number
Westerly Rhode Island	02891	, ,
SECTION E – BUILDING ELEVATION INFORM FOR ZONE AO AND ZONE	MATION (SURVEY NOT A (WITHOUT BFE)	REQUIRED)
For Zones AO and A (without BFE), complete Items E1–E5. If the Certifica complete Sections A, B,and C. For Items E1–E4, use natural grade, if available enter meters.	te is intended to support a lable. Check the measure	a LOMA or LOMR-F request, ment used. In Puerto Rico only,
 E1. Provide elevation information for the following and check the appropriation the highest adjacent grade (HAG) and the lowest adjacent grade (LAG) a) Top of bottom floor (including basement, 	ate boxes to show whethe 3).	r the elevation is above or below
crawlspace, or enclosure) is	feet [] meter	s 🔲 above or 🔲 below the HAG.
b) Top of bottom floor (including basement, crawlspace, or enclosure) is	feet meter	rs above or below the LAG,
E2. For Building Diagrams 6–9 with permanent flood openings provided in the next higher floor (elevation C2.b in	Section A Items 8 and/or	9 (see pages 1–2 of Instructions),
the diagrams) of the building is	feet meter	s above or below the HAG.
E3. Attached garage (top of slab) is	feet	s above or below the HAG.
E4. Top of platform of machinery and/or equipment servicing the building is	feet _ meter	s above or below the HAG.
E5. Zone AO only: If no flood depth number is available, is the top of the b floodplain management ordinance? Yes No Unknown	ottom floor elevated in ac . The local official must o	cordance with the community's certify this information in Section G.
SECTION F - PROPERTY OWNER (OR OWNER'S	REPRESENTATIVE) CF	RTIFICATION
The property owner or owner's authorized representative who completes S community-issued BFE) or Zone AO must sign here. The statements in Sec	actions A. P. and E for Zo	A College of a Prince
Property Owner or Owner's Authorized Representative's Name		
Address City	Sta	ate ZIP Code
Signature Dat	e Te	ephone
Comments	, , , , , , , , , , , , , , , , , , ,	
		Check here if attachments.

ELEVATION CERTIFICATE

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the correspond			FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, an 70 Weekapaug Road	id/or Bldg. No.) or P.O. Route	e and Box No.	Policy Number:
City Westerly	State ZIP C Rhode Island 0289		Company NAIC Number
SECTION G -	COMMUNITY INFORMATION	ON (OPTIONAL)	
The local official who is authorized by law or ordinanc Sections A, B, C (or E), and G of this Elevation Certifi- used in Items G8–G10. In Puerto Rico only, enter med	cate. Complete the applicable ters.	e item(s) and sign	below. Check the measurement
G1. The information in Section C was taken from engineer, or architect who is authorized by I data in the Comments area below.)	n other documentation that ha aw to certify elevation inform	as been signed ar ation. (Indicate the	nd sealed by a licensed surveyor, e source and date of the elevation
G2. A community official completed Section E for or Zone AO.	or a building located in Zone /	A (without a FEMA	A-issued or community-issued BFE)
G3. The following information (Items G4–G10) is	s provided for community floo	odplain manageme	ent purposes.
G4. Permit Number G5. I	Date Permit Issued		ate Certificate of ompliance/Occupancy Issued
G7. This permit has been issued for:	Construction Substantial	Improvement	
G8. Elevation of as-built lowest floor (including baser of the building:	nent)	feet	meters Datum
G9. BFE or (in Zone AO) depth of flooding at the buil	ding site:	feet	meters Datum
G10. Community's design flood elevation:		feet	meters Datum
Local Official's Name	Title		
Community Name	Telephone	. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Signature	Date		
Comments (including type of equipment and location, p	per C2(e), if applicable)		
			Check here if attachments.

BUILDING PHOTOGRAPHS

See Instructions for Item A6.

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, copy the corresponding information from Section A.

Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No.

70 Weekapaug Road

City State ZIP Code Company NAIC Number

Westerly Rhode Island 02891

If using the Elevation Certificate to obtain NFIP flood insurance, affix at least 2 building photographs below according to the instructions for Item A6. Identify all photographs with date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8. If submitting more photographs than will fit on this page, use the Continuation Page.



Photo One Caption

ELEVATION CERTIFICATE

East side (front) Photo taken 3/6/2018

Clear Photo One

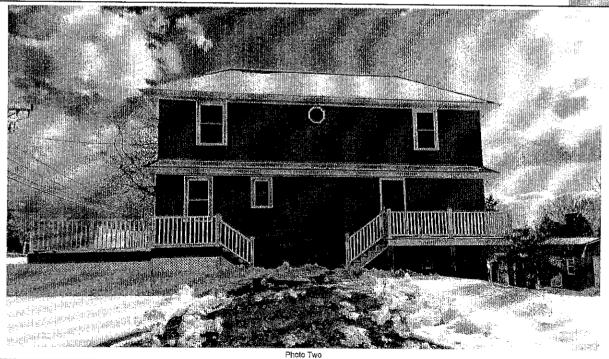


Photo Two Caption

North side Photo taken 3/6/2018

Clear Photo Two

BUILDING PHOTOGRAPHS

ELEVATION CERTIFICATE

Continuation Page

OMB No. 1660-0008 Expiration Date: November 30, 2018

IMPORTANT: In these spaces, c	opy the corresponding information	from Section A.	FOR INSURANCE COMPANY USE
Building Street Address (including Apt., Unit, Suite, and/or Bldg. No.) or P.O. Route and Box No. 70 Weekapaug Road			Policy Number:
City Westerly	State Rhode Island	ZIP Code 02891	Company NAIC Number

If submitting more photographs than will fit on the preceding page, affix the additional photographs below. Identify all photographs with: date taken; "Front View" and "Rear View"; and, if required, "Right Side View" and "Left Side View." When applicable, photographs must show the foundation with representative examples of the flood openings or vents, as indicated in Section A8.



Photo Three Caption

West side Photo taken 3/6/2019

Ölear Photo Three



Photo Four Caption

South side Photo taken 3/6/2019

Clear Photo Four

Section D Comments Revised 3/11/2019

Structure is a two story residence originally built in 1935 with a second floor addition added in 2018-2019 along with new decks. The structure is wood framed and supported on concrete foundation walls enclosing a walk out basement.

Section A8: Square footage quantity under section A8a, is based on the exterior dimension of the structure. The structure has 4 installed Smart Vents Model # 1540-574. Each Smart Vent allows for 200 square feet of flood coverage, see attached ICC Evaluation Report.

Section C2: Elevations are referenced to a GPS bench mark located at Cherenzia Companies corporate offices located approx. 4.1 miles from 70 Weekapaug Road. The corporate office elevation was established from numerous GPS static observations and reduntant OPUS reductions over the last 10+ years. A GPS static observation was used to transfer NAVD -88 datum to a local benchmark at the 70 Weekapaug Road site.

Section C2a: Elevation on the walkout basement level slab; building diagram 7: Elevation 6.79

Section C2b: Elevation listed is the floor above the basement. The 1st floor elevation is 15.11.

Section C2e: Water heater on 1st floor; elevation 15.11. Two propane tanks are secured to an exterior concrete pad located on the west side of the residence, Elevation 8.5', see west side photo on page 6 of the Elevation Certificate. All other machinery or equipment on 2nd floor; elevation 22.88.

Section C2h: ground elevation at support post for deck at southwesterly corner of residence. Elevation 7.0.

Building Diagrams

DIAGRAM 7

All buildings elevated on full-story foundation walls with a partially or fully enclosed area below the elevated floor. This includes walkout levels, where at least 1 side is at or above grade. The principal use of this building is located in the elevated floors of the building.

Distinguishing Feature – For all zones, the area below the elevated floor is enclosed, either partially or fully. In A Zones, the partially or fully enclosed area below the elevated floor is with or without openings** present in the walls of the enclosure. Indicate information about enclosure size and openings in Section A – Property Information.

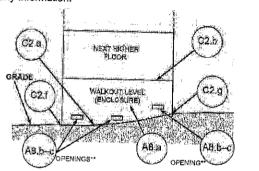


DIAGRAM 8

All buildings elevated on a crawlspace with the floor of the crawlspace at or above grade on at least 1 side, with or without an attached garage.

Distinguishing Feature – For all zones, the area below the first floor is enclosed by solid or partial perimeter walls. In all A zones, the crawlspace is with or without openings** present in the walls of the crawlspace. Indicate information about crawlspace size and openings in Section A – Property Information.

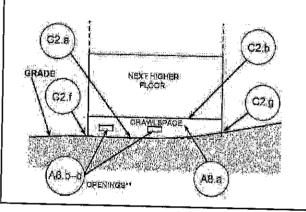
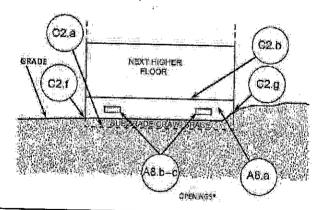


DIAGRAM 9

All buildings (other than split-level) elevated on a subgrade crawlspace, with or without attached garage.

Distinguishing Feature – The bottom (crawlspace) floor is below ground level (grade) on all sides.* (If the distance from the crawlspace floor to the top of the next higher floor is more than 5 feet, or the crawlspace floor is more than 2 feet below the grade [LAG] on all sides, use Diagram 2A or 2B.)



- * A floor that is below ground level (grade) on all sides is considered a basement even if the floor is used for living purposes, or as an office, garage, workshop, etc.
- ** An "opening" is a permanent opening that allows for the free passage of water automatically in both directions without human intervention.

 Under the NFIP, a minimum of 2 openings is required for enclosures or crawlspaces. The openings shall provide a total net area of not less than 1 square inch for every square foot of area enclosed, excluding any bars, louvers, or other covers of the opening. Alternatively, an Individual Engineered Flood Openings Certification or an Evaluation Report issued by the International Code Council Evaluation Service (ICC ES) must be submitted to document that the design of the openings will allow for the automatic equalization of hydrostatic flood forces on exterior walls. A window, a door, or a garage door is not considered an opening; openings may be installed in doors. Openings shall be on at least 2 sides of the enclosed area. If a building has more than 1 enclosed area, each area must have openings to allow floodwater to directly enter. The bottom of the openings must be no higher than 1.0 foot above the higher of the exterior or interior grade or floor immediately below the opening. For more

National Flood Hazard Layer FIRMette



OTHER AREAS OF FLOOD HAZARD OTHER AREAS

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

With BFE or Depth zone AE AG, AH, ME, AR Regulatory Floodway HAZARD AREAS SPECIAL FLOOD

0,2% Annual Chance Flood Hazard, Areas depth less than one foot or with drainage

areas of less than one square mile Zone A

Area with Reduced Flood Risk due to Future Conditions 1% Annual

Area with Flood Risk due to Leveezone D

Area of Undetermined Flood Hazard Zone D **Effective LOMRs**

Channel, Culvert, or Storm Sewer

GENERAL

ITTITI Levee, Dike, or Floodwall STRUCTURES

Cross Sections with 1% Annual Chance Water Surface Elevation 17.5

Base Flood Elevation Line (BFE) Coastal Transect

Limit of Study

Jurisdiction Boundary

Coastal Transect Baseline

Hydrographic Feature

OTHER FEATURES

Digital Data Available

No Digital Data Available

MAP PANELS

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap

authoritative NFHL web services provided by FEMA. This map effect changes or amendments subsequent to this date and vas exported on 3/11/2019 at 11:49:51 AM and does not ime. The NFHL and effective information may change or he flood hazard information is derived directly from the

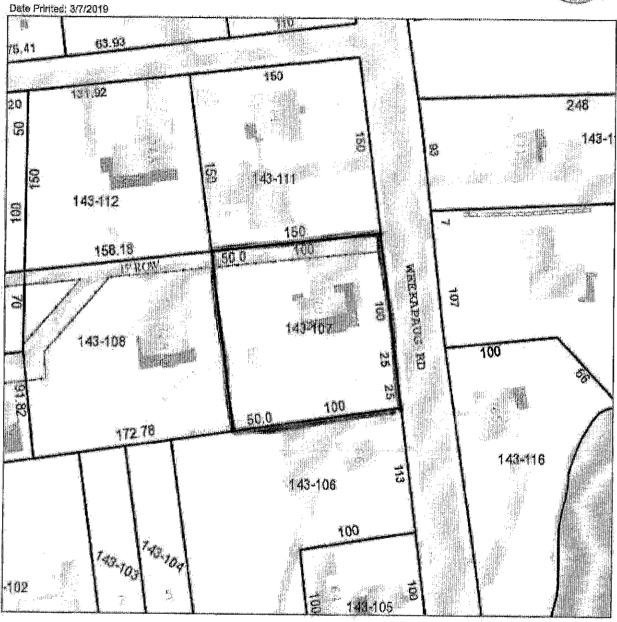
FIRM panel number, and FIRM effective date. Map images for egend, scale bar, map creation date, community identifiers, unmapped and unmodernized areas cannot be used for

1:6,000

500

Town of Westerly
Geographic Information System (GIS)





MAP DISCLAIMER - NOTICE OF LIABILITY
This map is for assessment purposes only. It is not for legal description or conveyances. All information is subject to verification by any user. The Town of Westerly and its mapping contractors assume no legal responsibility for the information contained herein.

Approximate Scale: 1 inch = 75 feet





70 Weekapaug Road Westerly, RI 02891 Harrington Residence

U.S. Fish and Wildlife Service

Coastal Barrier Resources System Mapper Documentation



CBRS Units

Otherwise Protected Area

System Unit

-71.768149, 41.337818

0 65 130 260 390 ft 1:4,514

The pin location displayed on the map is a point selected by the user. Failure of the user to ensure that the pin location displayed on insurance policy. The U.S. Fish and Wildlife Service (Service) has not validated the pin location with respect to the user supplied address/location description below. The Service recommends that all pin locations be verified by federal agencies prior to use of this map for the provision or denial of federal funding or financial assistance. Please note that a structure bisected by the Coastal Barrier Resources System (CBRS) boundary (i.e., both "partially in" and "partially out") is within the CBRS and therefore affected by CBRA's restrictions on federal flood insurance. A pin placed on a bisected structure must be placed on the portion of the structure within the unit (including any attached features such as a deck or stairs).

User Supplied Address/Location Description: N/A

Pin Location: Outside CBRS

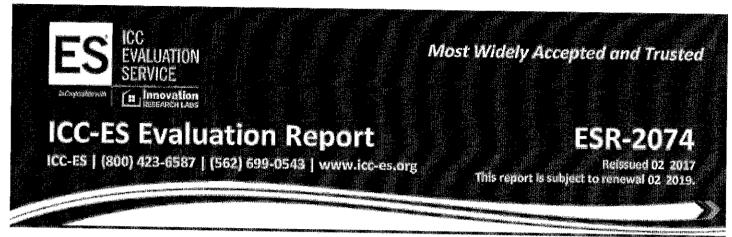
Pin Flood Insurance Prohibition Date: N/A Pin System Unit Establishment Date: N/A

The user placed pin location is not within the CBRS. For the nearest official CBRS map depicting this area, please see the map numbered 079A, dated 10/23/1992. The official CBRS maps are accessible at https://www.fws.gov/cbra/maps/index.html.

The CBRS information is derived directly from the CBRS web service provided by the Service. This map was exported on 3/8/2019 and does not reflect changes or amendments subsequent to this date. The CBRS boundaries on this map may become superseded by new boundaries over time.

This map image may be void if one or more of the following map elements do not appear: basemap imagery, CBRS unit labels, prohibition date labels, legend, scale bar, map creation date. For additional information about flood insurance and the CBRS, visit: https://www.fws.gov/cbra/Flood-Insurance.html.





DIVISION: 08 00 00—OPENINGS

SECTION: 08 95 43—VENTS/FOUNDATION FLOOD VENTS

REPORT HOLDER:

SMARTVENT PRODUCTS, INC.

430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071

EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514



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ICC-ES Evaluation Report

ESR-2074

Reissued February 2017 Revised November 2017

This report is subject to renewal February 2019.

www.icc-es.org | (800) 423-6587 | (562) 699-0543

A Subsidiary of the International Code Council®

DIVISION: 08 00 00-OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

SMARTVENT PRODUCTS, INC. 430 ANDBRO DRIVE, UNIT 1 **PITMAN, NEW JERSEY 08071** (877) 441-8368 www.smartvent.com info@smartvent.com

EVALUATION SUBJECT:

SMART VENT® AUTOMATIC FOUNDATION FLOOD VENTS: MODELS #1540-520; #1540-521; #1540-510; #1540-511; #1540-570; #1540-574; #1540-524; #1540-514

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015, 2012, 2009 and 2006 International Building Code® (IBC)
- 2015, 2012, 2009 and 2006 International Residential Code® (IRC)
- 2013 Abu Dhabi International Building Code (ADIBC)[†]

[†]The ADIBC is based on the 2009 IBC, 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

- Physical operation
- Water flow

2.0 USES

The Smart Vent® units are engineered mechanically operated flood vents (FVs) employed to equalize hydrostatic pressure on walls of enclosures subject to rising or falling flood waters. Certain models also allow natural ventilation.

3.0 DESCRIPTION

3.1 General:

When subjected to rising water, the Smart Vent® FVs internal floats are activated, then pivot open to allow flow in either direction to equalize water level and hydrostatic pressure from one side of the foundation to the other. The FV pivoting door is normally held in the closed position by a buoyant release device. When subjected to rising water,

the buoyant release device causes the unit to unlatch, allowing the door to rotate out of the way and allow flow. The water level stabilizes, equalizing the lateral forces. Each unit is fabricated from stainless steel. Smart Vent® Automatic Foundation Flood Vents are available in various models and sizes as described in Table 1. The SmartVENT® Stacking Model #1540-511 and FloodVENT® Stacking Model #1540-521 units each contain two vertically arranged openings per unit.

3.2 Engineered Opening:

The FVs comply with the design principle noted in Section 2.7.2.2 and Section 2.7.3 of ASCE/SEI 24-14 [Section 2.6.2.2 of ASCE/SEI 24-05 (2012, 2009, 2006 IBC and IRC)] for a maximum rate of rise and fail of 5.0 feet per hour (0.423 mm/s). In order to comply with the engineered opening requirement of ASCE/SEI 24, Smart Vent FVs must be installed in accordance with Section 4.0.

3.3 Ventilation:

The SmartVENT® Model #1540-510 and SmartVENT® Overhead Door Model #1540-514 both have screen covers with 1/4-inch-by-1/4-inch (6.35 by 6.35 mm) openings. yielding 51 square inches (32 903 mm²) of net free area to supply natural ventilation. The SmartVENT® Stacking Model #1540-511 consists of two Model #1540-510 units in one assembly, and provides 102 square inches (65 806 mm²) of net free area to supply natural ventilation. Other FVs recognized in this report do not offer natural ventilation.

4.0 DESIGN AND INSTALLATION

SmartVENT® and FloodVENT® are designed to be installed into walls or overhead doors of existing or new construction from the exterior side. Installation of the vents must be in accordance with the manufacturer's instructions, the applicable code and this report. Installation clips allow mounting in masonry and concrete walls of any thickness. In order to comply with the engineered opening design principle noted in Section 2.7.2.2 and 2.7.3 of ASCE/SEI 24-14 [Section 2.6.2.2 of ASCE/SEI 24-05 (2012, 2009, 2006 IBC and IRC)], the Smart Vent® FVs must be installed as follows:

- With a minimum of two openings on different sides of each enclosed area.
- With a minimum of one FV for every 200 square feet (18.6 m2) of enclosed area, except that the SmartVENT® Stacking Model #1540-511 FloodVENT® Stacking Model #1540-521 must be



installed with a minimum of one FV for every 400 square feet (37.2 m²) of enclosed area.

- Below the base flood elevation.
- With the bottom of the FV located a maximum of 12 inches (305.4 mm) above the higher of the final grade or floor and finished exterior grade immediately under each opening.

5.0 CONDITIONS OF USE

The Smart Vent[®] FVs described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 The Smart Vent® FVs must be installed in accordance with this report, the applicable code and the manufacturer's installation instructions. In the event of a conflict, the instructions in this report govern.

5.2 The Smart Vent® FVs must not be used in the place of "breakaway walls" in coastal high hazard areas, but are permitted for use in conjunction with breakaway walls in other areas.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Mechanically Operated Flood Vents (AC364), dated August 2015.

7.0 IDENTIFICATION

The Smart VENT® models recognized in this report must be identified by a label bearing the manufacturer's name (Smartvent Products, Inc.), the model number, and the evaluation report number (ESR-2074).

TABLE 1-MODEL SIZES

MODEL NAME	MODEL NUMBER	MODEL SIZE (in.)	COVERAGE (sq. ft.)
FloodVENT [®]	1540-520	15 ³ / ₄ " X 7 ³ / ₄ "	200
SmartVENT [®]	1540-510	15 ³ / ₄ " X 7 ³ / ₄ "	200
FloodVENT® Overhead Door	1540-524	15 ³ / ₄ " X 7 ³ / ₄ "	200
SmartVENT® Overhead Door	1540-514	15 ³ / ₄ " X 7 ³ / ₄ "	200
Wood Wall FloodVENT®	1540-570	14" X 8 ³ / ₄ "	200
Wood Wall FloodVENT® Overhead Door	1540-574	14" X 8 ³ / ₄ "	200
SmartVENT [®] Stacker	1540-511	16" X 16"	400
FloodVent [®] Stacker	1540-521	16" X 16"	400

For SI: 1 inch = 25.4 mm; 1 square foot = m^2

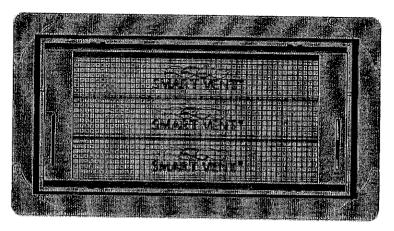


FIGURE 1—SMART VENT: MODEL 1540-510

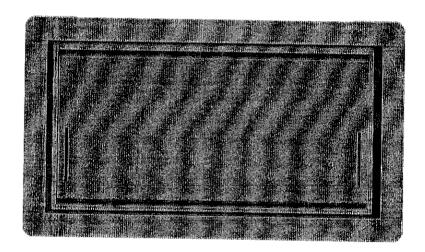


FIGURE 2—SMART VENT MODEL 1540-520

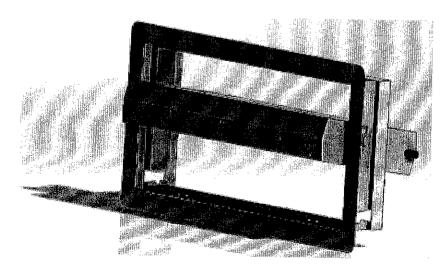


FIGURE 3—SMART VENT: SHOWN WITH FLOOD DOOR PIVOTED OPEN



ICC-ES Evaluation Report

ESR-2074 CBC and CRC Supplement

Issued February 2017 Revised November 2017 This report is subject to renewal February 2019.

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A Subsidiary of the International Code Council®

DIVISION: 08 00 00-OPENINGS

Section: 08 95 43—Vents/Foundation Flood Vents

REPORT HOLDER:

SMARTVENT PRODUCTS, INC. 430 ANDBRO DRIVE, UNIT 1 PITMAN, NEW JERSEY 08071 (877) 441-8368 www.smartvent.com info@smartvent.com

EVALUATION SUBJECT:

 $\textbf{SMART VENT}^{\$} \ \textbf{AUTOMATIC FOUNDATION FLOOD VENTS: MODELS \#1540-520; \#1540-521; \#1540-510; \#1540-511; \#1540-570; \#1540-574; \#1540-524; \#1540-514 \\$

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent® Automatic Foundation Flood Vents, recognized in ICC-ES master evaluation report ESR-2074, have also been evaluated for compliance with codes noted below.

Applicable code edition:

- 2016 California Building Code (CBC)
- 2016 California Residential Code (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with 2016 CBC Chapter 12, provided the design and installation are in accordance with the 2015 International Building Code® (IBC) provisions noted in the master report and the additional requirements of CBC Chapters 12, 16 and 16A, as applicable.

The products recognized in this supplement have not been evaluated under CBC Chapter 7A for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

2.2 CRC:

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with the 2016 CRC, provided the design and installation are in accordance with the 2015 *International Residential Code®* (IRC) provisions noted in the master report.

The products recognized in this supplement have not been evaluated under 2016 CRC Chapter R337, for use in the exterior design and construction of new buildings located in any Fire Hazard Severity Zone within State Responsibility Areas or any Wildland-Urban Interface Fire Area.

The products recognized in this supplement have not been evaluated for compliance with the International Wildland–Urban Interface Code[®].

This supplement expires concurrently with the master report, reissued February 2017 and revised November 2017.





ICC-ES Evaluation Report

ESR-2074 FBC Supplement

Reissued February 2017 Revised November 2017 This report is subject to renewal February 2019.

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DIVISION: 08 00 00—OPENINGS

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REPORT HOLDER:

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EVALUATION SUBJECT:

 $SMART\ VENT^{\circledcirc}\ AUTOMATIC\ FOUNDATION\ FLOOD\ VENTS:\ MODELS\ \#1540-520;\ \#1540-521;\ \#1540-510;\ \#1540-511;\ \#1540-570;\ \#1540-524;\ \#1540-514$

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Smart Vent® Automatic Foundation Flood Vents, recognized in ICC-ES master report ESR-2074, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2017 Florida Building Code—Building
- 2017 Florida Building Code—Residential

2.0 CONCLUSIONS

The Smart Vent® Automatic Foundation Flood Vents, described in Sections 2.0 through 7.0 of the master evaluation report ESR-2074, comply with the *Florida Building Code—Building* and the FRC, provided the design and installation are in accordance with the 2015 *International Building Code®* provisions noted in the master report.

Use of the Smart Vent® Automatic Foundation Flood Vents has also been found to be in compliance with the High-Velocity Hurricane Zone provisions of the Florida Building Code—Building and the Florida Building Code—Residential

For products falling under Florida Rule 9N-3, verification that the report holder's quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

This supplement expires concurrently with the master report, reissued February 2017 and revised November 2017.

